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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

09/19/2008

MURATA MANUFACTURING COMPANY, LTD. C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive SUITE 200 Reston, VA 20191

EXAMINER				
BERHANE, ADOLF D				
ART UNIT	PAPER NUMBER			

2838

DATE MAILED: 09/19/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,480	02/15/2006	Jun Nagai	36856.1420	2270

TITLE OF INVENTION: ISOLATED DC-DC CONVERTER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/19/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	P	ATTOF	NEY DOCKET NO.	CONFIRMATION	NO.
10/568,480 ITLE OF INVENTION	02/15/2006 : ISOLATED DC-DC C	ONVERTER	Jun Nagai				36856.1420	2270	
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	12/19/200)8
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BERHANE,	ADOLF D	2838	363-021060						
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10/568,480	02/15/2006	Jun Nagai	36856.1420	2270
54066 75	90 09/19/2008		EXAM	INER
MURATA MAN	UFACTURING CO	MPANY, LTD.	BERHANE,	ADOLF D
C/O KEATING &	-		ART UNIT	PAPER NUMBER
1800 Alexander Be SUITE 200 Reston, VA 20191	ll Drive		2838 DATE MAILED: 09/19/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 523 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 523 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Annilostion No	A (' 4/-)	
	Application No.	Applicant(s)	
Nation of Allowability	10/568,480	NAGAI, JUN	
Notice of Allowability	Examiner	Art Unit	
	Adolf Berhane	2838	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate community RIGHTS. This application is \$113 and MPEP 1308.	n this application. If not included unication will be mailed in due course	
1. X This communication is responsive to papers filed on 2/1	<u>5/06</u> .		
2. $igspace$ The allowed claim(s) is/are <u>5-11</u> .			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application	on No	om the
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirem	nents
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") n	nust be submitted.		
(a) ☐ including changes required by the Notice of Draftspo		v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment o	in the Office action of	
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such i			of
 DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN 			ne
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. 🗌 Notice of In	formal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948		ummary (PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2/15/06& 3/25/08		Mail Date Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposition of Biological Material 	t 8. ☑ Examiner's 9. ☐ Other	Statement of Reasons for Allowance	е
	/Adolf Berhane	=	
	Adolf Berhane		
	Primary Examir	ner	
	Art Unit 2838		

Application/Control Number: 10/568,480 Page 2

Art Unit: 2838

1. Claims 5-11 are allowed over the cited prior art.

2. The following is an examiner's statement of reasons for allowance: None of prior art of record disclose or teach a DC-DC converter with a tertiary side rectifying and smoothing circuit includes a commutation side synchronous rectifier to rectify the output voltage form the tertiary coil, the commutation side synchronous rectifier being arranged to be switched on when the main switching device is turned off.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf Berhane whose telephone number is 571-272-2077. The examiner can normally be reached on Monday- Friday 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm E. Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Adolf Berhane/ Adolf Berhane Primary Examiner Art Unit 2838